

WHAT IS CLAIMED IS:

1. A soy milk coagulating device comprising:

a coagulation vessel with an internal volume of 1,000 cc or less;

two electrode plates facing each other to form a pair in the vessel; and

a power feed controlling mechanism for controlling electricity fed to the electrode plates,

wherein the power feed controlling mechanism is composed of a tofu control system, a yuba control system and switching means, the tofu control system being provided to heat soy milk to a set temperature at an average heating rate of equal to or less than 8°C per minute, the yuba control system being provided to heat soy milk to a set temperature without putting any limitation on heating speed, the switching means being provided to switch between the two control systems.

2. A soy milk coagulating device comprising:

a coagulation vessel with an internal volume of 1,000 cc or less;

two electrode plates facing each other to form a pair in the vessel; and

a power feed controlling mechanism for controlling electricity fed to the electrode plates,

wherein the power feed controlling mechanism is composed of a tofu control system, a yuba control system and switching means, the tofu control system being provided to heat soy milk to a set temperature at an average heating rate of more than 8°C per minute and equal to or less than 15°C per minute, and to keep the soy milk at the temperature for at least 5 minutes, the yuba control system being provided to heat soy milk to a set temperature without putting any limitation on heating speed, the switching means being provided to switch between the two control systems.

3. A soy milk coagulating device according to claim 1 or 2, wherein the power feed controlling mechanism has a temperature sensor attached to a side wall or bottom of the coagulation vessel.

4. A soy milk coagulating device according to claim 3, wherein the temperature sensor is installed in a side wall or bottom of the coagulation vessel without being exposed on the inner face of the vessel.

5. A soy milk coagulating device according to claim 4, wherein the temperature sensor is fixedly attached to a small, thin piece of metal that is attached to the inner face of the coagulation vessel.

6. A soy milk coagulating device according to claim 4, wherein

the temperature sensor is composed of a heat transfer plate, a thermoelectric couple and a pressurizing mechanism, the heat transfer plate coming into surface-to-surface contact with a small, thin piece of metal that is attached to the inner face of the coagulation vessel, the thermoelectric couple being fixedly attached to the heat transfer plate, the pressurizing mechanism being provided to bring the heat transfer plate and the small, thin piece of metal into contact with each other through pressurization.

7. A soy milk coagulating device according to claim 5 or 6, wherein the surface of the small, thin piece of metal is coated with a heat-transferable insulating film.

8. A soy milk coagulating device according to claim 3, 5 or 6, wherein the tofu control system has a relay control function for cutting electricity feed to the electrode plates during temperature measurement.